

CAT6 DIRECT BURIAL SHIELDED - GEL FILLED

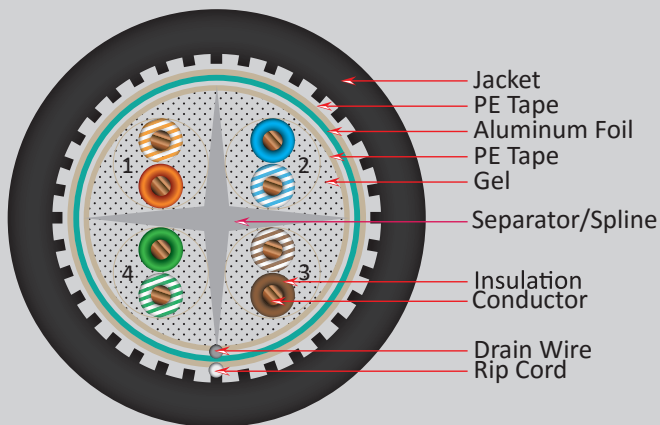
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DESCRIPTION

Category-6 Shielded, 8-Conductor, 23AWG Solid-Bare Copper, Direct Burial, Gel Filled.

FEATURES

- High-Performance Data Cable
- 550MHz Bandwidth, 10/100/1000 Base-T
- Category-6 Shielded Twisted Pair
- 23AWG Solid Copper Conductors
- Gel Filled Core, LLDPE Jacket
- Easily Identified Color-Striped Pairs
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- ETL Listed, RoHS Compliant
- 1000ft Wooden Spool



Technical Data

| | |
|-------------------|-----------|
| Rated Temperature | 70°C |
| Rated Voltage | 30V |
| Flammability Test | IEC-332-1 |

Conductor

Solid Bare Copper

Size 23 AWG

Insulation

| | |
|---------------------------------|-------|
| PE | |
| Average Thickness(mm) | 0.248 |
| Min. Point Thickness(mm) | 0.222 |
| Insulation Diameter (±0.01mm) | 1.08 |
| Twisted Pair Diameter (±0.02mm) | 2.16 |

Shielding

Aluminum Foil

PE-Tape Yes

Drain Wire (Tinned Copper) (mm) 0.40

Separator

LDPE

Assembly Diameter

6.60

Jacket

LLDPE

Outer Diameter (±0.20mm) 8.10

Average Thickness(mm) 0.70

Min. Point Thickness(mm) 0.63

Gel Yes

Rip Cord Nylon

Color Black

Color of Pairs

Pair 1:Blue,White-Blue
Pair 2:Orange,White-Orange
Pair 3:Green,White-Green
Pair 4:Brown,White-Brown

Mechanical Characteristics

| | |
|-------------------------------|-----------------|
| Test Object | Jacket |
| Test Material | LLDPE |
| Before Tensile Strength (Mpa) | >=10.6 |
| Aging Elongation (%) | >=300 |
| Aging Condition (°Cxhrs) | 100x168 |
| After Tensile Strength (Mpa) | >=85% of unaged |
| Aging Elongation (%) | >=50% of unaged |
| Cold Bend (-20±2° Cx4hrs) | No Crack |



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Where Quality Cable is on Sale!



Rev. 08/2015

Specs subject to change without notice.

It is the sole responsibility of the user to have the most current specs.

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PERFORMANCE

Electrical Characteristics:

| | |
|--|--------|
| 1.0-100MHz Impedance (Ohms) | 100±15 |
| 100-250MHz Impedance (Ohms) | 100±25 |
| 250-550MHz Impedance (Ohms) | 100±35 |
| 1.0-100.0MHz Delay Skew (ns/100m) | <=45 |
| Pair-to-Ground Capacitance Unbalance (pF/100m) | <=330 |
| Max. Conductor DC Resistance 20°C (ohms/km) | 95 |
| Resistance Unbalance (%) | <=5 |

| Frequency (Mhz) | Return Loss (Min dB) | Attenuation Max (dB/100m) | Next (Min dB) |
|-----------------|----------------------|---------------------------|---------------|
| 0.772 | 19.4 | 1.8 | 76.0 |
| 1 | 20.0 | 2.0 | 74.3 |
| 4 | 23.0 | 3.8 | 65.3 |
| 8 | 24.5 | 5.3 | 60.8 |
| 10 | 25.0 | 6.0 | 59.3 |
| 16 | 25.0 | 7.6 | 56.2 |
| 20 | 25.0 | 8.5 | 54.8 |
| 25 | 24.3 | 9.5 | 53.3 |
| 31.25 | 23.6 | 10.7 | 51.9 |
| 62.5 | 21.5 | 15.4 | 47.4 |
| 100 | 20.1 | 19.8 | 44.3 |
| 200 | 18.0 | 29.0 | 39.8 |
| 250 | 17.3 | 32.8 | 38.3 |
| 350 | 16.3 | 39.8 | 36.1 |
| 450 | 15.5 | 46.0 | 34.5 |
| 550 | 14.9 | 51.7 | 33.2 |

| Frequency (Mhz) | PSNext Min (dB) | ELFEXT Min(db/100m) | Delay Max(ns/100m) |
|-----------------|-----------------|---------------------|--------------------|
| 0.772 | 74.0 | 70.0 | ----- |
| 1 | 72.3 | 67.8 | 570.0 |
| 4 | 63.3 | 55.8 | 552.0 |
| 8 | 58.8 | 49.7 | 546.0 |
| 10 | 57.3 | 47.8 | 545.0 |
| 16 | 54.2 | 43.7 | 543.0 |
| 20 | 52.8 | 41.8 | 542.0 |
| 25 | 51.3 | 39.8 | 541.0 |
| 31.25 | 49.9 | 37.9 | 540.0 |
| 62.5 | 45.4 | 31.9 | 538.0 |
| 100 | 42.3 | 27.8 | 537.0 |
| 200 | 37.8 | 21.8 | 536.0 |
| 250 | 36.3 | 19.8 | 536.0 |
| 350 | 34.1 | 17.1 | 535.0 |
| 450 | 32.5 | 15.2 | 534.0 |
| 550 | 31.2 | 13.2 | 532.0 |

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